

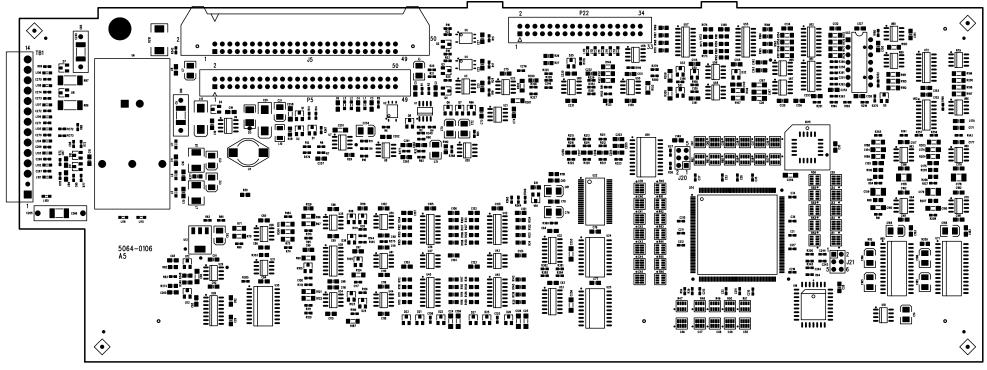
Agilent N3306A 600W Electronic Load Module Component Level Information

Information in this packet applies to the following assemblies:

- 1. 5064-0106 Control Board
- 2. 5064-0123 600W Power Board

The following is included in this packet:

- 1. Component Locators
- 2. Schematics
- 3. Parts lists with Agilent and manufacturer's part numbers

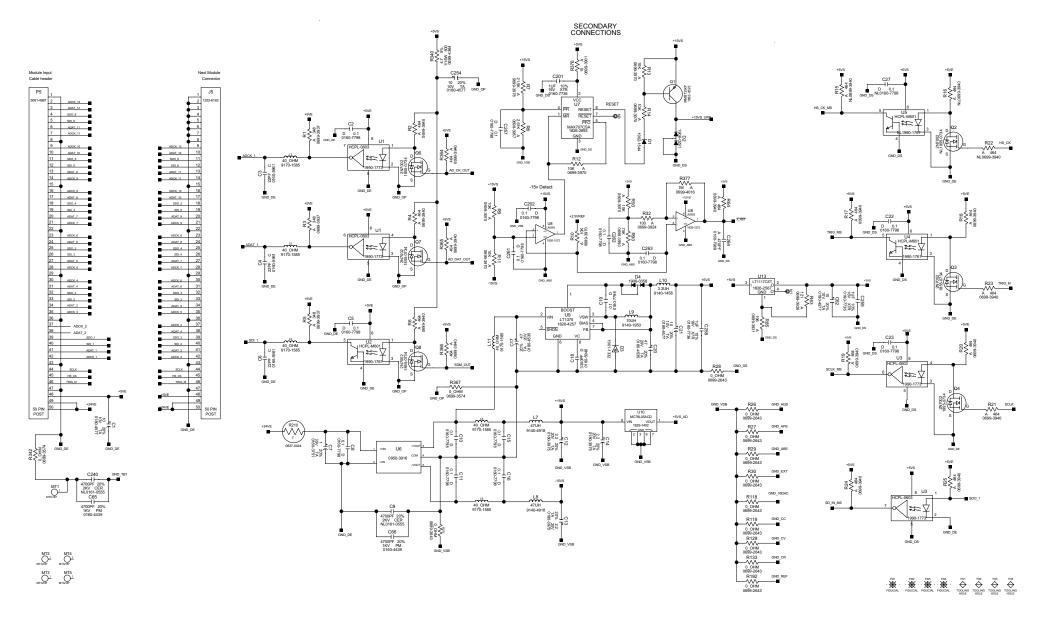


GRAPHICS (TOP SIDE)

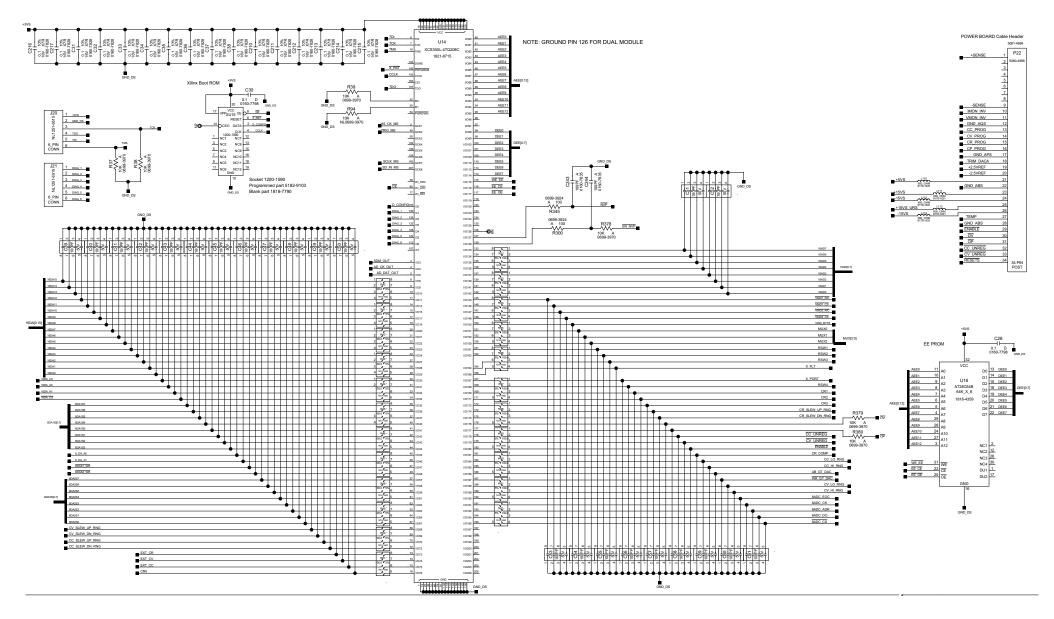
NOTE: Magnify to see component reference designators.

Agilent N3306A 600W Electronic Load Module

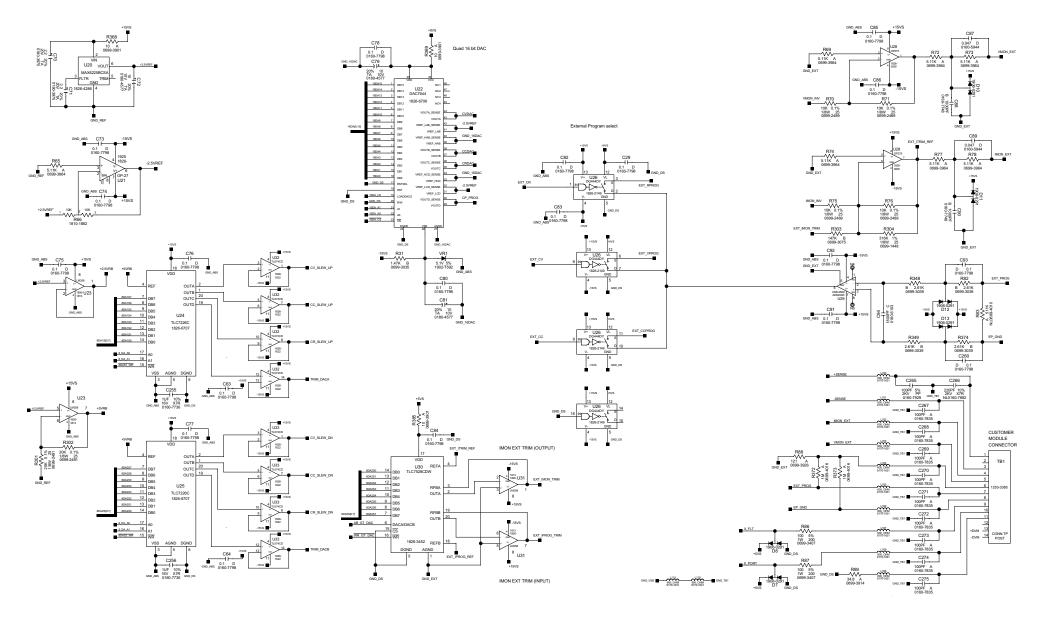
5064-0106 Control Board PC Assembly Component Locator



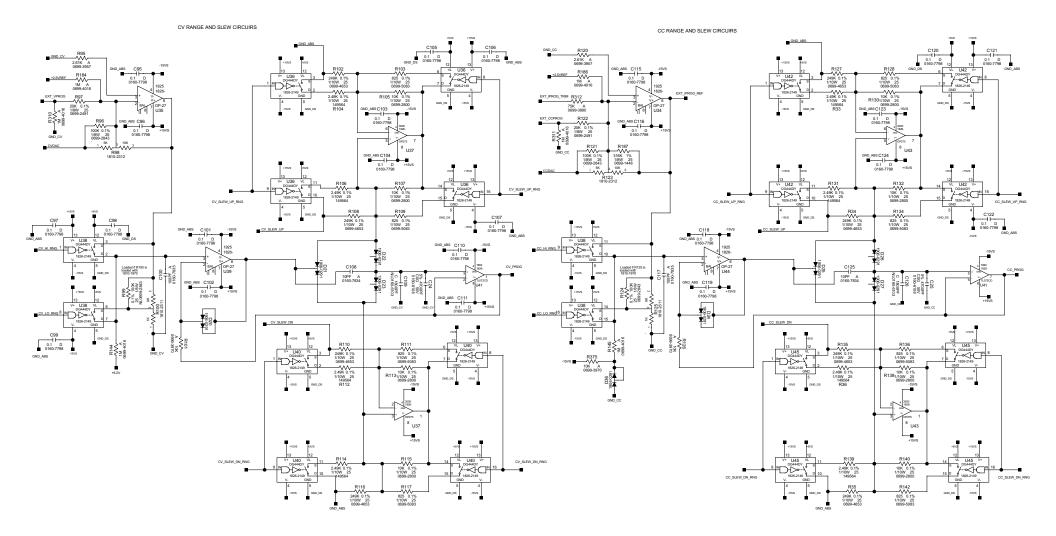
5064-0106 Control Board PC Assembly Page 1 of 6



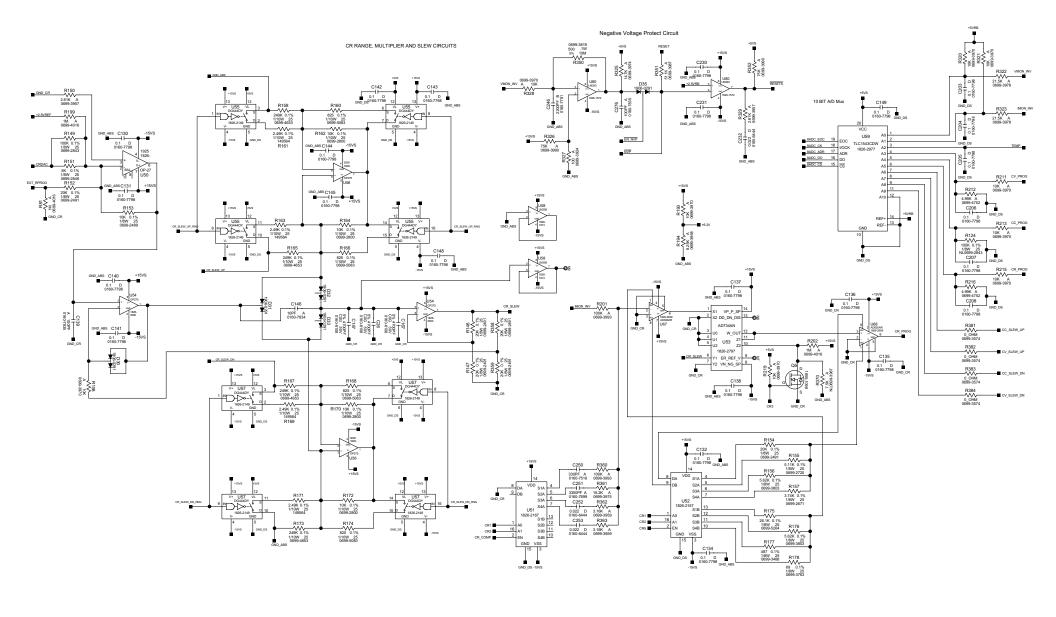
5064-0106 Control Board PC Assembly Page 2 of 6



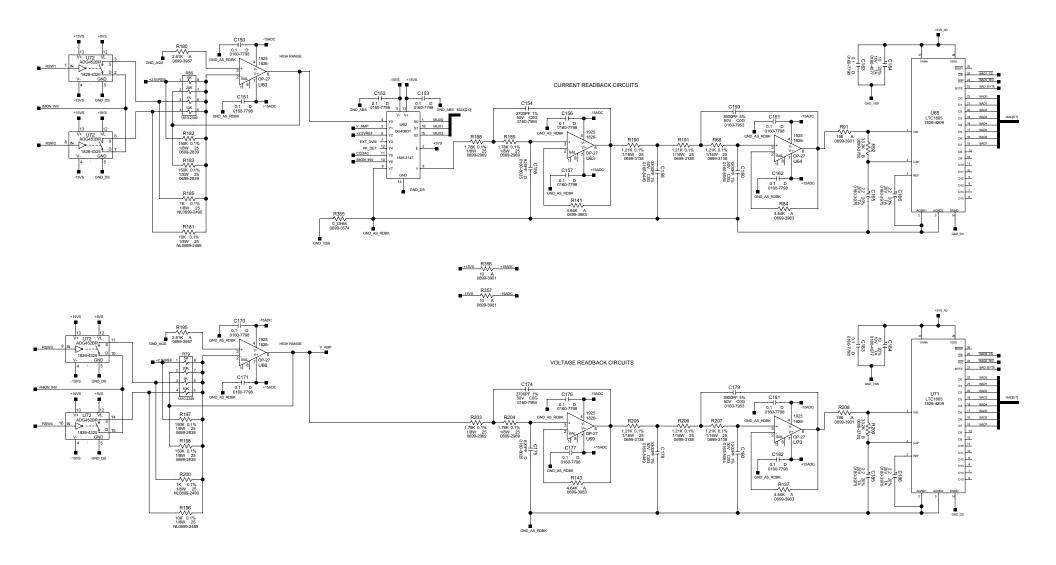
5064-0106 Control Board PC Assembly Page 3 of 6



5064-0106 Control Board PC Assembly Page 4 of 6



5064-0106 Control Board PC Assembly Page 5 of 6



5064-0106 Control Board PC Assembly Page 6 of 6

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
· ·			CAPACITOR-FIXED 10uF +-20PCT 10V TA	TAJB106M010R	AVX
C1, C164, C184, C21, C254, C62, C72, C79, C81	9	0180-4577	CAPACITOR-FIXED TOUF 4-20PCT TOV TA	293D106X0010B2E3 ESVB21A106M T491B106M010AS	VISHAY NEC ELECTRONICS KEMET ELECTRONICS
C10, C101-C107, C11, C110, C111, C115, C116, C118-C124, C130-C132, C134-C138, C140-C145, C148, C149, C15, C150-C153, C156, C157, C16, C161-C163, C170, C171, C176, C177, C181-C183, C19, C2, C202-C208, C22, C23, C230, C231, C257, C260-C263, C28, C29, C30, C5, C63, C64, C73-C78, C8, C80, C82-C86, C91-C93, C95-C99	99	0160-7798	CAP-FXD 0.1uF +-10PCT 50V CER X7R	GRM21BR71H104KA11L VJ0805Y104KXAMT 08055C104KAT_A C0805C104K5RAC C2012X7R1H104K	MURATA MANUFACTURING VISHAY AVX KEMET ELECTRONICS TDK
C100, C117, C139, C243, C244, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276	15	0160-7835	CAP-FXD 100pF +-5PCT 50V CER C0G	GRM1885C1H101JA01D C1608C0G1H101J 06035A101JAT C0603C101J5GAC VJ0603A101JXA	MURATA MANUFACTURING TDK AVX KEMET ELECTRONICS VISHAY
C108, C125, C146	3	0160-7834	CAP-FXD 10pF +-5PCT 50 V CER C0G	C1608COG1H100D 06035A100JAT GRM1885C1H100JD01D C0603C100J5GAC	TDK AVX MURATA MANUFACTURING KEMET ELECTRONICS
C12, C13, C14, C165, C166, C	9	0180-3975	CAP-FXD 2.2uF +-20PCT 20V TA	TAJB225M020 293D225X0020B2E3 49MC225B020M0AS ESVB21D225M T491B225M020AS	AVX VISHAY VISHAY BC COMPONENTS NEC ELECTRONICS KEMET ELECTRONICS
C147, C167, C24, C25, C26	5	0160-6108	CAP-FXD 4700pF +-5pct 50 V CER C0G	C1206C472J5GAC GRM3195C1H472JA01D	KEMET ELECTRONICS MURATA MANUFACTURING
C154, C174	2	0160-7994	CAP-FXD 2700pF +-1pct 50 V CER C0G	12065A272FAT_A C1206C272F5GAC	AVX KEMET ELECTRONICS

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
C155, C175	2	0160-8025	CAP-FXD 820pF +-1pct 50 V CER C0G	08055A821FATA 500R15N821FV2 C0805C821F5GAC	AVX JOHANSON DIELECTRICS KEMET ELECTRONICS
C158, C178	2	0160-8449	CAP-FXD 3300pF +-1pct 50 V CER C0G	C1210C332F5GAC	KEMET ELECTRONICS
C159, C179	2	0160-7953	CAP-FXD 3900pF +-1pct 50 V CER C0G	C1210C392F5GAC 12105A392FAT_A	KEMET ELECTRONICS AVX
C160, C180	2	0160-8064	CAP-FXD 1200pF +-1pct 50 V CER C0G	C1206C122F5GAC 12065A122FAT_A GRM3195C1H122FD01D	KEMET ELECTRONICS AVX MURATA MANUFACTURING
C17, C20	2	0180-4535	CAP-FXD 47uF +-20pct 20 V TA	593D476X0020E2S072 T495X476M020ASE150 TPSE476M020R0150	VISHAY KEMET ELECTRONICS AVX
C18	1	0160-5946	CAP-FXD 3300pF +-10pct 50 V CER X7R	08055C332KAT_A C0805C332K5RAC C2012X7R1H332K GRM2165C1H332JA01D	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C201, C255, C256, C258, C259	5	0160-7736	CAP-FXD 1uF +-10PCT 16 V CER X7R	1206YC105KAT C1206C105K4RAC GRM31MR71C105KA01L	AVX KEMET ELECTRONICS MURATA MANUFACTURING
C210-C217, C31-C38	16	0160-7828	CAP-FXD 0.1uF +-10PCT 16 V CER X7R	CC0603KRX7R7BB104 0603YC104KATA C0603C104K4RAC C1608X7R1C104K GRM188R71C104KA01J	YAGEO AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C232, C252, C253	3	0160-6444	CAP-FXD 0.022uF +-10pct 50 V CER X7R	08055C223KAT C0805C223K5RAC C2012X7R1H223K GRM40X7R223K50	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C246	1	0160-7781	CAP-FXD 2200pF +-10pct 50 V CER X7R	06035C222KAT C0603C222K5RAC C1608X7R1H222KT	AVX KEMET ELECTRONICS TDK
C250	1	0160-7516	CAP-FXD 330pF +-5pct 50 V CER C0G	C0603C331J5GAC C1608COG1H331J GRM1885C1H331JA01D	KEMET ELECTRONICS TDK MURATA MANUFACTURING

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
C251	1		CAP-FXD 3300pF +-10pct 50 V CER X7R	06035C332KAT	AVX
0201	' '	0100 7000	I TAB GOODFI T TOPOL GO V GER ATR	C0603C332K5RAC	KEMET ELECTRONICS
				C1608X7R1H332K	TDK
				GRM188R71H332KA01D	MURATA MANUFACTURING
C264	1	0160-7988	CAP-FXD 470pF +-5PCT 50 V CER C0G 0603	06035A471JAT_A	AVX
				C0603C471J5GAC C1608COG1H471J	KEMET ELECTRONICS
				GRM1885C1H471JA01	MURATA MANUFACTURING
					WOTO TITLE WITH THE PROPERTY OF THE PROPERTY O
C265	1	0160-7929	CAP-FXD 100pF +-5pct 2 kV POLYP-FL	FKP1 100PF/+-5%/2000VDC	WIMA
C3, C4, C6	3	0160-5961	CAP-FXD 22pF +-5pct 50 V CER C0G	08055A220JAT A	AVX
				C0805C220J5GAC	KEMET ELECTRONICS
				C2012COG1H220J	TDK
				GRM2165C1H220JD01D VJ0805A220JXAMT	MURATA MANUFACTURING VISHAY
				V30803A2203AAWT	VISHAT
C39-C61	23	0160-8497	CAP-FXD 100pF +-10pct 50 V CER C0G	CKCA43COG1H101K	TDK
			' '	221461636	PHILIPS
				W3A45A101KAT	AVX
				221461636	NXP
C65, C66	2	0160-4439	CAP-FXD 4700pF +-20pct 1 kV PPR-MET	PME271Y447MR30	EVOX/RIFA
C7	1		CAP-FXD 1uF +-20PCT 35V TA	TAJB105M035	AVX
				293D105X0035B2E3	VISHAY
				ESVB21V105M	NEC ELECTRONICS
				SK-1V105M-RB	ELNA
C87, C89	2	0160-5944	CAP-FXD 0.047uF +-10pct 50 V CER X7R	08055C473KAT A	AVX
,			·	C0805C473K5RAC	KEMET ELECTRONICS
				C2012X7R1H473K	TDK
C88, C90	2	0160-7748	CAP-FXD 1000pF +-10PCT 50V CER X7R 0603	06035C102KAT	AVX
000, 090		0100-7748		223858615614	YAGEO
				C0603C102K5RAC	KEMET ELECTRONICS
				C1608X7R1H102KT	TDK
				GRM188R71H102KA01D	MURATA MANUFACTURING
				VJ0603Y102KXA	VISHAY
C94	1	0160-6103	CAP-FXD 1800pF +-5pct 50 V CER C0G	12065A182JATRA	AVX
				C1206C182J5GAC	KEMET ELECTRONICS
				C3216CH1H182J	TDK
				GRM3195C1H182JD01D	MURATA MANUFACTURING

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
D1	1	1902-1544	DIODE-ZNR 10V 5PCT TO-236(SOT-23) PD35V	BZX84C10 BZX84C10LT1G BZX84C10	PHILIPS ON SEMICONDUCTOR NXP
D2, D7, D8, D10-D13, D20-D27, D30-D33, D35, D36,	21	1906-0291	DIODE-DUAL 70V 100MA T0-236AA	BAV99 BAV99 BAV99LT1G BAV99X_ BAV99	PHILIPS FAIRCHILD SEMICONDUCTOR ON SEMICONDUCTOR INFINEON TECHNOLOGIES NXP
D3	1	1901-1332	DIODE-PWR-S 40V 1A D0-214AA	10BQ040PBF SK14 SS24 STPS140U MBRS140T3G	INTERNATIONAL RECTIFIER MICROSEMI VISHAY STMICROELECTRONICS ON SEMICONDUCTOR
D4	1	1906-0358	DIODE-DUAL 100V 100MA TO-236AB (SOT-23)	MMBD1203	FAIRCHILD SEMICONDUCTOR
J5	1			N3433-5202RB	3M
L1, L11, L2, L3, L5, L6	6	9170-1585	CORE-SHIELDING BEAD	FCM2012V-400 MMZ2012S400A_ MI0805K400R-10	TAI-TECH ADVANCED TDK STEWARD
L10	1	9140-1458	INDUCTOR 3.3uH +-5pct 2.8W-mmX3.4LG-mm	NLV32T-3R3J -PF KL32T3R3J	TDK KOA
L100-L116	17	9170-1631	CORE-SHIELDING BEAD	MMZ2012S601A	TDK
L7, L8	2		INDUCTOR 47uH +20pct -20pct	UP0.4C-470 P0770.473	COOPER INDUSTRIES TECHNITROL
L9	1	9140-1950	INDUCTOR 10uH +20pct -20pct	DT3316P-103ML	COILCRAFT
P22	1		CABLE-RIBBON	5081-4998 5081-4998	FREEDOM ELECTRONICS MICROTEK
P5	1	5081-4987	CABLE-RIBBON		
Q1	1		TRANSISTOR PNP SI TO-236AA PD=200MW	MMBT2907 PMBT2907A MMBT2907ALT1G PMBT2907A	FAIRCHILD SEMICONDUCTOR PHILIPS ON SEMICONDUCTOR NXP

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
		_	·		
Q3, Q4, Q6, Q7, Q8	5	1855-0734	TRANSISTOR MOSFET 2N7002 N-CHAN E-MO	2N7002-11-E3 2N7002 2N7002 SN7002NX_ 2N7002	VISHAY FAIRCHILD SEMICONDUCTOR PHILIPS INFINEON TECHNOLOGIES NXP
Q5	1	1855-1098	TRANSISTOR MOSFET N-CHAN E-MODE SOT-23	MMBF0201NLT1G	ON SEMICONDUCTOR
R1, R3, R5	3	0699-3937	RES-FXD 348 +-1PCT .063W TKF TC=0+-200	CRCW0603348RFKE_ RK73H1JT_3480F MCR03FX3480 232270463481	VISHAY KOA ROHM YAGEO
R10, R101, R11, R12, R126, R13, R14, R158, R193, R211, R213, R215, R219, R320, R321, R328, R37, R375, R378, R379, R38, R380, R39, R9, R93	25	0699-3970	RESISTOR 10K +-1pct .063W TKF TC=0+-200	CRCW060310K0FKE_ RK73H1JT_1002F 232270461003L MCR03FX1002	VISHAY KOA YAGEO ROHM
R100, 125	2	1810-2311	NET-RES 2 1K OHM 3-PIN MULTI-VAL	MPM1001/9001F	VISHAY
R102, R108, R110, R116, R127, R135, R159, R165, R167, R173, R34, R35	12	0699-4653	RES 249K .1pct .1W	PTN0805E2493BB W0805R032493B	VISHAY TT ELECTRONICS
R103, R109, R111, R117, R128, R134, R136, R142, R160, R166, R168, R174	12		RES-FXD 825 OHM +-0.1PCT 0.1W TC 0+-25 0805	TNPW08058250BT-9 RN732AT_8250B25	VISHAY KOA
R104, R106, R112, R114, R131, R139, R161, R163, R169, R171, R33, R36	12	0699-6699	RES-FXD 2.49K +-0.1PCT 0.1W TC 0+-25 0805	RN732AT_2491B25 2312-241-72492 2312-241-72492 PFC-W0805R-03-2491-B	KOA VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R105, R107, R113, R115, R130, R132, R138, R140, R162, R164, R170, R172	12	0699-2800	RES-FXD 10K OHM +- 0.1PCT 0.1W TC 0+-25	TNPW08051002BT-9 RN732AT_1002B25 RG2012P-103-B	VISHAY KOA SUSUMU
R118, R119, R129, R133, R192, R26, R27, R28, R29, R30, R371	11	0699-2643	RES-FXD 0 OHM +-5PCT .1W TC 0+-300	CRCW08050000ZSE_ CR21-000-ZL MCR10J000 RK73Z2AT 232273091002L ZC0805-TW	VISHAY ASJ ROHM KOA YAGEO RCD COMPONENTS

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
R120, R150, R180, R195,	7	Ţ	RESISTOR 2.61K +-1pct .063W TKF	CRCW06032K61FKE_	VISHAY
R329, R8, R95	'	0099-3937	TC=0+-200	RK73H1JT_2611F	KOA
1029, 10, 109			10-04-200	232270462612L	YAGEO
				MCR03FX2611	ROHM
				NONOO X2011	TKOT IIVI
R122, R146, R147, R152,	10	0699-2491	RESISTOR 20K +-0.1pct .125W TF TC=0+-25	RN732BT_2002B25	KOA
R154, R301, R302, R358,			·		RCD COMPONENTS
R359, R97				MCA1206-25 0, 1% P5 20K	VISHAY BC COMPONENTS
				MCA1206-25 0, 1% P5 20K	VISHAY
				PCF-W1206LF-03-2002-B	TT ELECTRONICS
R123, R98	2		NET-RES 2 10.0K OHM 3-PIN MULTI-VAL	MPM5001/1002F	VISHAY
R137, R141, R143, R84	4	0699-3963	RESISTOR 4.64K +-1pct .063W TKF	CRCW06034K64FKE_	VISHAY
			TC=0+-200	RK73H1JT_4641F	KOA
				232270464642L	YAGEO
				MCR03FX4641	ROHM
R144, R145, R184, R186,	11	0600-4016	RES-FXD 1MOHM +-1PCT .063W TC 0+-200	RK73H1JT 1004F	KOA
R199, R310, R311, R372,	''	0099-4010		RC0603F - 1ML	YAGEO
R373, R377, R81				CRCW06031M00FKE	VISHAY
K373, K377, K01				MCR03FX1004	ROHM
				X1004	INOT IIVI
R151	1	0699-2846	RESISTOR 5K +-0.1pct .125W TF TC=0+-25	RN732BT_5001B25	KOA
				2322741X5002	YAGEO
				BLU-1206 5K .1% 25PPM	RCD COMPONENTS
				MCA1206-25 0, 1% P5 5K	VISHAY BC COMPONENTS
				TNPW12065001BT-9	VISHAY
				PCF-W1206LF-03-5001-B	TT ELECTRONICS
				_	
D450 D70 D74 D75 D70	_	0000 0400	DECIDED 401/ + 0.45 + 40514/ TE TO 0.00	DNZOODT 4000D05	1404
R153, R70, R71, R75, R76	5	0699-2489	RESISTOR 10K +-0.1pct .125W TF TC=0+-25	RN732BT_1002B25	KOA
					RCD COMPONENTS
				MCA1206-25 0, 1% P5 10K	VISHAY BC COMPONENTS
				,	VISHAY
				PCF-W1206LF-03-1002-B	TT ELECTRONICS
				_	
R155	1	0699-2720	RESISTOR 5.11K +-0.1pct .125W TF TC=0+-25	RN732BT_5111B25	KOA
			, , , , , , , , , , , , , , , , , , ,	BLU-1206 5110 .1% 25PPM	
				PCF-W1206LF-03-5111-B	
				_	

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
R156, R176	2	0699-3803	RES-FXD 5.62K +-0.1PCT .125W TC 0+-25	RN732BT_5621B25 MCA1206-25 0, 1% P5 5.62K MCA1206-25 0, 1% P5 5.62K PCF-W1206LF-03-5621-B	VISHAY
R157	1	0699-2671	RESISTOR 3.74K +-0.1pct .125W TF TC=0+-25	BLU-1206 3K74 .1% 25PPM MCA1206-25 0, 1% P5 3.74K MCA1206-25 0, 1% P5 3.74K	VISHAY BC COMPONENTS
R17, R18, R19, R2, R20, R21, R23, R24, R25, R364, R365, R366, R4, R6, R64	15	0699-3940	RES-FXD 464 +-1PCT .063W TKF TC 0+-200	CRCW0603464RFKE_ RK73H1JT_4640F 232270464641L MCR03FX4640	VISHAY KOA YAGEO ROHM
R175	1	0699-5264	RESISTOR 26.1K +-0.1pct .125W TKF TC=0+-25	RN73E2B2612B	KOA
R177	1	0699-3488	RESISTOR 487 +-0.1pct .125W TF TC=0+-25	MCA1206-25 0, 1% P5 487R PTN1206E4870BB	VISHAY TT ELECTRONICS
R178	1	0699-3763	RESISTOR 69 +-0.1pct .125W TF TC=0+-25	TNPW1206690BT-9	KOA YAGEO RCD COMPONENTS VISHAY TT ELECTRONICS

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
R182, R183, R197, R198	4	0699-2839	RESISTOR 150K +-0.1pct .125W TF TC=0+-25	BLU-1206 150K .1% 25PPM MCA1206-25 0, 1% P5 150K PTN1206E1503BB	KOA RCD COMPONENTS VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R187, R304	2	0699-1448	RESISTOR 316K +-1pct .125W TKF TC=0+-100	CRCW1206316KFKE_ RK73H2BT_3163F MCR18F3163 232272463164	VISHAY KOA ROHM YAGEO
R188, R189, R203, R204	4	0699-2969	RESISTOR 1.78K +-0.1pct .125W TF TC=0+-25	MCA1206-25 0, 1% P5 1.78K PTN1206E1781BB	KOA VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R190, R191, R205, R206, R207, R68	6	0699-3138	RES-FXD 1.21K .1PCT 0.1W TC 0+-25 0805	TNPW0805 1211BT9 RN732AT_1211B25 RR1220P-1211-B-M	VISHAY KOA SUSUMU
R194	1	0699-3968	RESISTOR 8.25K +-1pct .063W TKF TC=0+-200		VISHAY KOA ROHM YAGEO
R201, R360	2	0699-3993	RESISTOR 100K +-1pct .063W TKF TC=0+-200	CRCW0603100KFKE_ RK73H1JT_1003F 232270461004L MCR03FX1003	VISHAY KOA YAGEO ROHM
R202	1	0699-4003	RESISTOR 261K +-1pct .063W TKF TC=0+-200	RK73H1JT_2613F MCR03FX2613 MC06032613-FT RC0603F261KL	KOA ROHM RCD COMPONENTS YAGEO

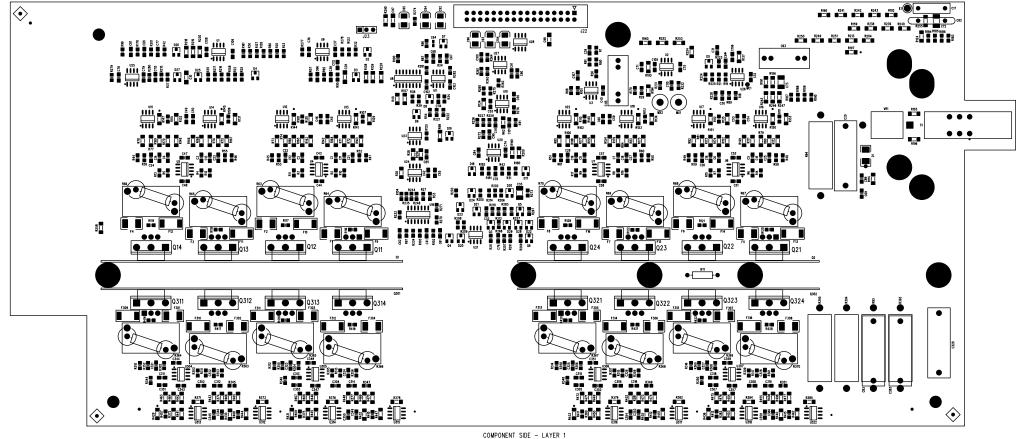
Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
R208, R85, R91	3		·	CRCW0603196RFKE_	VISHAY
K206, K65, K91	3	0099-3931	RESISTOR 196 +-1pct.063W TRF TC=0+-200	RK73H1JT_1960F	KOA
				232270461961L	YAGEO
				MCR03 FX1960	ROHM
				WICKU3FX1960	ROHM
R209, R92	2	0699-3780	RESISTOR 33.2K +-1pct .1W TKF TC=0+-100	CRCW080533K2FKE_	VISHAY
				RK73H2AT_3322F	KOA
				232273463323L	YAGEO
				MCR10F3322	ROHM
				MC08053322-FT	RCD COMPONENTS
R210	1	0837-0444	THERMISTOR-SWITCHING SMT, PTC RESISTO	SMD075F-2	TYCO INTERNATIONAL
				MF-SM075-99	BOURNS
R212, R214, R216	3	0699-4752	RESISTOR 4.99K +-1PCT .063W TKF TC=0+-20	CRCW06034K99FKE_	VISHAY
				RK73H1JT_4991F	KOA
				MCR03 FX4991	ROHM
				232270464992	YAGEO
				MC06034991-FT	RCD COMPONENTS
R300, R32, R327, R345	4	0699-3924	RES-FXD 100 +-1PCT .063W TKF TC=0+-200	CRCW0603100RFKE_	VISHAY
				CR16-1000-JL	ASJ
				RK73H1JT_1000F	KOA
				MCR03FX1000	ROHM
				232270461001	YAGEO
				MC06031000-FT	RCD COMPONENTS
R303	1	0699-3075	RESISTOR 147K +-1pct .1W TKF TC=0+-100	CRCW0805147KFKE_	VISHAY
1303	' '	0099-3073		RK73H2AT_1473F	KOA
				MCR10 F1473	ROHM
					YAGEO
				232273461474 MC08051473-FT	RCD COMPONENTS
				IVICU0051473-F1	RCD COMPONENTS
R31	1	0699-3035	RESISTOR 1.47K +-1pct .1W TKF TC=0+-100	CRCW08051K47FKE_	VISHAY
				RK73H2AT_1471F	KOA
				MCR10F1471	ROHM
				232273461472	YAGEO
R312, R326, R352, R90	4	0699-3990	RES-FXD 75K +-1PCT 0.063W TC 0+-200 0603	CRCW060375K0FKE_	VISHAY
				RK73H1JT_7502F	KOA
				MCR03FX7502	ROHM
				2322704_7503	YAGEO

Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
R322, R323, R7	3		RESISTOR 21.5K +-1pct .063W TKF TC=0+-200	CRCW060321K5FKE_ RK73H1JT_2152F 232270462153L MCR03FX2152	VISHAY KOA YAGEO ROHM
R325	1	0699-3974	RESISTOR 14.7K +-1pct .063W TKF TC=0+-200	CRCW060314K7FKE_ CR16-1472-FL RK73H1JTTD1472F RK73H1JTTD1472F 232270461473	VISHAY ASJ KOA ROHM YAGEO
R340	1	0699-4364	RESISTOR 4.7 +-5PCT .063W TKF TC=0+-500	RK73B1JT_4R7J MCR03J4R7 232270260478 MC06034R70-JT	KOA ROHM YAGEO RCD COMPONENTS
R342, R355, R367, R381, R382, R383, R384	7	0699-3574	RESISTOR 0 .0625W TKF	CRCW06030000ZSE_ RK73Z1JT 232270296001L MCR03J000 CJ10-000	VISHAY KOA YAGEO ROHM KYOCERA
R348, R349, R374, R82	4	0699-3039	RESISTOR 2.61K +-1pct .1W TKF TC=0+-100	CRCW08052K61FKE_ RK73H2AT_2611F MCR10F2611 232273462612 MC08052611-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R350	1	0699-3819	RESISTOR 10M +-5PCT .1W TKF TC 0+-500 0805	CRCW080510M0JNE_ RK73B2AT_106J MCR10J106 MC08051005-JTW	VISHAY KOA ROHM RCD COMPONENTS
R351	1	0699-3987	RESISTOR 51.1K +-1pct .063W TKF TC=0+-200	CRCW060351K1FKE_ CR16-5112-FL RK73H1JT_5112F 232270465113L MCR03FX5112	VISHAY ASJ KOA YAGEO ROHM

Defenence Designator	04		I-0106 Control Board Parts List (Electro		Manufacturan
Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
R356, R357, R368, R369,	6	0699-3901	RES-FXD 10 +-1PCT .063W TKF TC=0+-200	CRCW060310R0FKE_	VISHAY
R376, R385				RK73H1JT_10R0F	KOA
				232270461009L	YAGEO
				MCR03FX10R0	ROHM
				MC060310R0-FT	RCD COMPONENTS
R361	1	0699-3975	RESISTOR 16.2K +-1pct .063W TKF	CRCW060316K2FKE_	VISHAY
			TC=0+-200	RK73H1JT_1622F	KOA
				232270461623L	YAGEO
				MCR03FX1622	ROHM
					
R362, R363	2	0699-3959	RESISTOR 3.16K +-1PCT .063W TKF	CRCW06033K16FKE_	VISHAY
			TC=0+-200	RK73H1JT_3161F	KOA
				232270463162L	YAGEO
				MCR03FX3161	ROHM
R40-R62	23	1810-1680	NET-RES 4 100.0 OHM	CN1J4T_101J	KOA
				MNR14 J101	ROHM
				235003410101	YAGEO
				742083101J	CTS
				CRA06S0803101J	VISHAY
				010100000001010	V161 1/ C1
R63, R88	2	0699-3926	RESISTOR 121 +-1pct .063W TKF TC=0+-200	CRCW0603121RFKE_	VISHAY
1 (55), 1 (55)	-	0000 0020		RK73H1JT_1210F	KOA
				232270461211L	YAGEO
				MCR03 FX1210	ROHM
				CR16-1210-FF	ASJ
				OK 10-1210-11	7.00
R65, R69, R72-R74,	7	0699-3964	RESISTOR 5.11K +-1pct .063W TKF	CRCW06035K11FKE_	VISHAY
R77, R78			TC=0+-200	RK73H1JT_5111F	KOA
				232270465112L	YAGEO
				MCR03 FX5111	ROHM
R66	1	1810-1882	NET-RES 2 10.0K OHM	MPM2002F	VISHAY
R79, R80	2		NET-RES	108-095	VISHAY
R86, R87	2	0699-3407	RES-FXD 100 OHM +-5PCT 1W TC 0+-200	CRCW2512100RJNE_	VISHAY
			2512	RK73B3AT_101J	KOA
				MCR100J101	ROHM
R89	1	0699-3914	RESISTOR 34.8 +-1pct .063W TKF TC=0+-200	CRCW060334R8FKE_	VISHAY
				RK73H1JT_34R8F	KOA
				MCR03FX34R8	ROHM
				232270463489	YAGEO
1	-		•	•	

Deference Decimates	04.		-0106 Control Board Parts List (Electro	•	Manufacturer
Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
R96,R149,R121	3	0699-2843	RESISTOR 100K +-0.1pct .125W TF TC=0+-25	RN732BT_1003B25	KOA
					RCD COMPONENTS
				MCA1206-25 0, 1% P5 100K	
				TNPW12061003BT-9	VISHAY
				PCF-W1206LF-03-1003-B	TT ELECTRONICS
				_	
TB1	1		CONN-POST TYPE 3.5MM-PIN-SPCG-MTG-	1844333	PHOENIX TECHNOLOGIES
	_		END		
U1, U3	2		OPTO-ISOLATOR LED-IC GATE IF=15MA-MAX		AVAGO TECHNOLOGIES
U10	1		IC PWR MGT-V-REG-FXD-POS 4.8/5.2V	UA78L05ACD	TEXAS INSTRUMENTS
			8 PINS	MC78L05ACDR2G	ON SEMICONDUCTOR
				LM78L05ACM NOPB	NATIONAL SEMICONDUCTOR
U13	1	1826-2567	IC PWR MGT-V-REG-ADJ-POS 4 PINS	LD1117S	STMICROELECTRONICS
			TO-261AA	LT1117CST	LINEAR TECHNOLOGY
				REG1117	TEXAS INSTRUMENTS
U14	1	1821-8715	IC PLD FPGA UNPROGRAMMED CMOS	XCS30XL-4PQ208C	XILINX
			S30XL		
U15	1		ROM-PRGMD: 1818-7790		
U15a	1		IC 256K-BIT OTP 60-NS CMOS	XC17256ELPC20C	XILINX
U16	1	1818-4359	IC 64K-BIT EEPROM 250-NS CMOS	AT28C64B-15JU	ATMEL
U2, U4	2	1990-1761	OPTO-ISOLATOR LED-IC GATE IF=50MA-MAX	HCPL-M601-500E	AVAGO TECHNOLOGIES
U20	1	1826-4286	IC PWR MGT-V-REF-FXD 2.497/2.503V 8 PINS	MAX6225BCSA+	MAXIM INTEGRATED PRODUCTS
U21, U34, U35, U39, U44,	12	1826-1925	IC OP AMP LOW-NOISE SINGLE 8 PIN	OPA27GU/E4	TEXAS INSTRUMENTS
U50, U60, U63, U64, U66,				OP27GSZ	ANALOG DEVICES
U69, U70					
U22	1		D/A 16-BIT 48-PIN-SSOP CMOS	DAC7644EB	TEXAS INSTRUMENTS
U23, U31, U58	3	1826-1813	IC OP AMP GP DUAL 8-SOIC	LM358D	TEXAS INSTRUMENTS
				LM358MNOPB	NATIONAL SEMICONDUCTOR
U24, U25	2	1826-6707	D/A 8-BIT 20-P-SOIC BICMOS	TLC7226CDW	TEXAS INSTRUMENTS
U26, U36, U38, U40,	8	1826-2149	ANALOG SWITCH 4 SPST 16 -P-SOIC	DG444DY-E3	VISHAY
U42, U45, U55, U57					
U28, U37, U43, U54, U56	5	1826-3000	IC AUDIO AMPL LOW-NOISE DUAL 8 PIN	OP275GSZ	ANALOG DEVICES
U29, U67, U68	3	1826-2609	IC INSTM AMPL LP 8 PIN PLSTC-SOIC	AD620ARZ	ANALOG DEVICES
U30	1	1826-3452	D/A 8-BIT 20-P-SOIC CMOS	TLC7528CDW	TEXAS INSTRUMENTS
U32, U33	2	1826-1622	IC OP AMP LOW-BIAS-H-IMPD QUAD 14 PIN	TL074CD	TEXAS INSTRUMENTS
U41	1	1826-1862	IC OP AMP LOW-BIAS-H-IMPD DUAL 8-SOIC	TL072CD	STMICROELECTRONICS
				TL072CD	TEXAS INSTRUMENTS

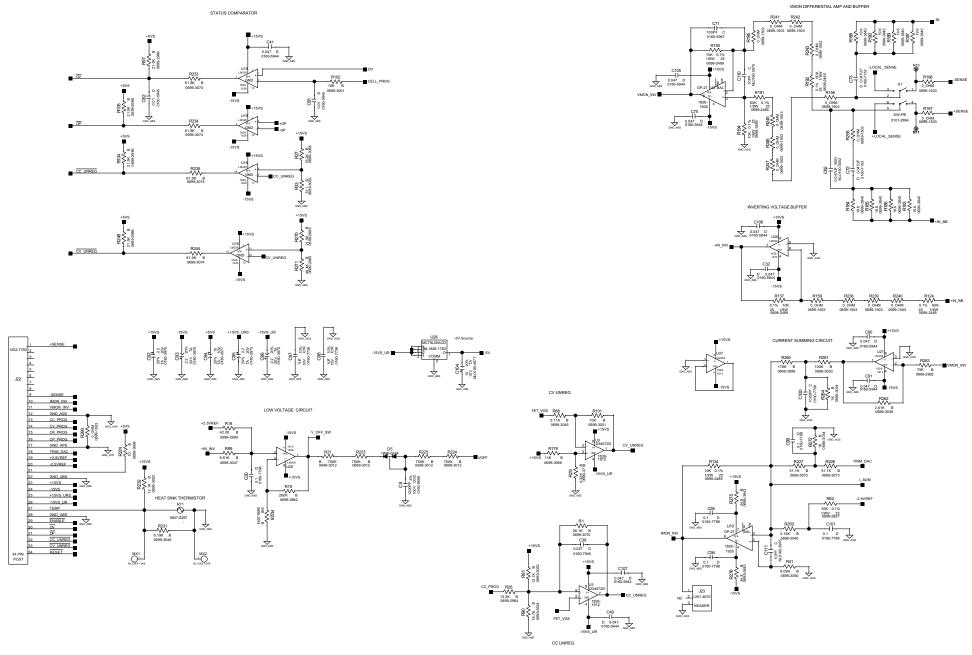
Reference Designator	Qty	Agilent P/N	Description	MPN	Manufacturer
U51, U52	2	1826-2167	ANALOG MULTIPLEXER 8 CHNL 16-SOIC	DG409DY-E3	VISHAY
, i				DG409DY	INTERSIL
U53	1	1826-2797	IC MULTIPLIER HS 14 PIN DIP-P	AD734ANZ	ANALOG DEVICES
U59	1	1826-2977	A/D 10-BIT 20-P-SOIC CMOS	TLC1543CDW	TEXAS INSTRUMENTS
U6	1	0950-3916	DC-DC-CONV 18-36 VDC INP	FDC10-24D15	ASTRODYNE
U62 pin 4 to pin 8	0.014	8150-3431	WIRE 30AWG BL 42V KYNAR-PVF	5951-6	ALPHA WIRE
				BR212/1-30-021	CORNISH WIRE
U65, U71	2	1826-4209	A/D 16-BIT 28-P-SOIC	LTC1605CSW	LINEAR TECHNOLOGY
		1020 1200	10 10 20 20 1 0010	AD976ARZ	ANALOG DEVICES
U7	1	1826-2893	IC PWR MGT-VS-SUPVR/CONT 8 PINS	MAX707CSA	MAXIM INTEGRATED PRODUCTS
			P-SOIC	ADM707ARZ	ANALOG DEVICES
U72	1	1826-4325	ANLG SW 4 SPST 16-PIN SOIC	ADG452BRZ	ANALOG DEVICES
U8, U80	2	1826-1572	IC COMPARATOR PRCN DUAL 8 PIN	LM393D	TEXAS INSTRUMENTS
			PLSTC-SOIC	LM393DR2G	ON SEMICONDUCTOR
U9	1	1826-4257	IC PWR MGT-V-REG-SWG 4.94/5.06V 8 PINS	LT1376CS8-5	LINEAR TECHNOLOGY
VR1	1		DIODE-ZNR 5.1V 5pct TO-236 (SOT-23)	BZX84C5V1	PHILIPS
VICT	'	1902-1392	DIODE-2141K 3.1V 3pct 10-230 (301-23)	BZX84C5V1LT1G	ON SEMICONDUCTOR
				BZX84C5V1	NXP
				DZA0403V1	14/41
XU15	1	1200-1590	SOCKET-IC-PLCC 20-CONT SQUARE J-LEAD	3-822516-3	TYCO ELECTRONICS AMP



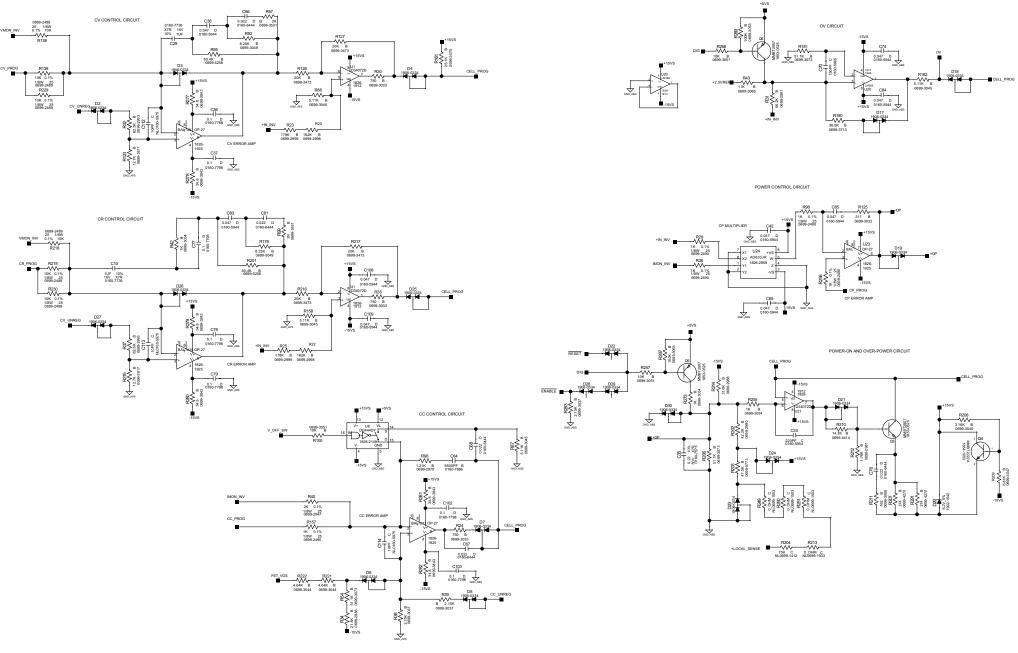
NOTE: Magnify to see component reference designators.

Agilent N3306A **600W Electronic Load Module**

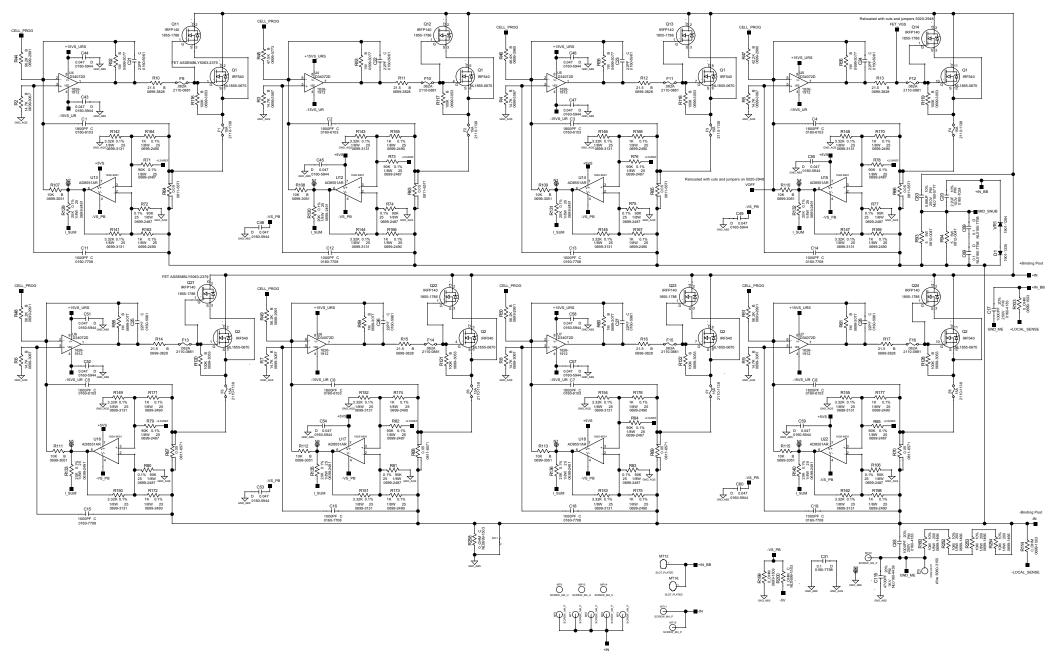
5064-0123 600W Power Board PC Assembly **Component Locator**



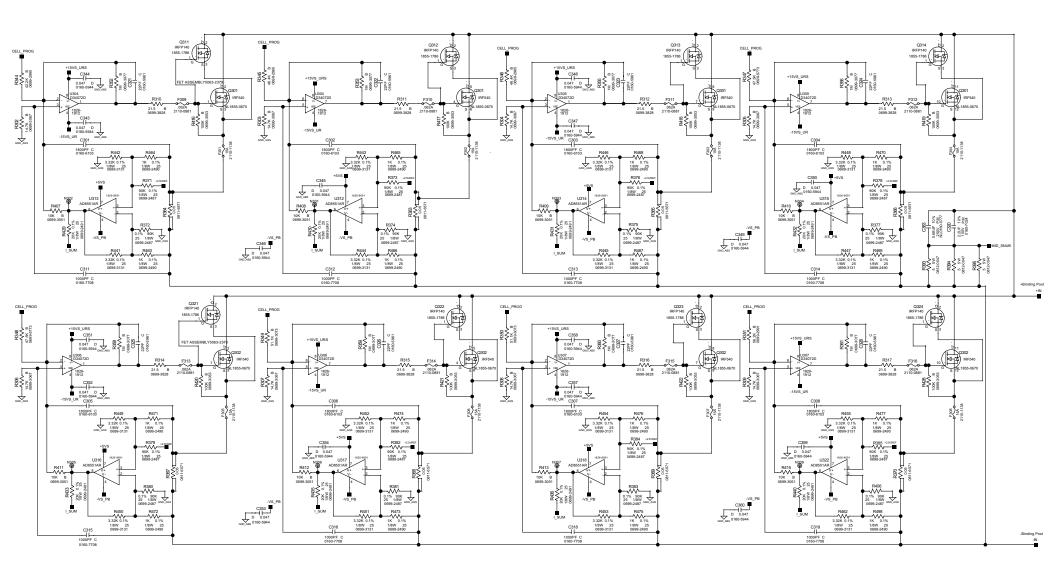
5064-0123 600W Power Board PC Assembly Page 1 of 4



5064-0123 600W Power Board PC Assembly Page 2 of 4



5064-0123 600W Power Board PC Assembly Page 3 of 4



5064-0123 600W Power Board PC Assembly Page 4 of 4

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
C1, C2, C3, C301, C302, C303, C304, C305, C306, C307, C308, C4, C5, C6, C7, C8	16	0160-6103	CAP-FXD 1800pF +-5pct 50 V CER C0G	12065A182JATRA C1206C182J5GAC C3216CH1H182J GRM3195C1H182JD01D	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C10, C29, C97, C98	4	0160-7736	CAP-FXD 1uF +-10PCT 16 V CER X7R	1206YC105KAT C1206C105K4RAC GRM31MR71C105KA01L	AVX KEMET ELECTRONICS MURATA MANUFACTURING
C100, C11, C12, C13, C14, C15, C16, C18, C19, C311, C312, C313, C314, C315, C316, C318, C319	17	0160-7708	CAP-FXD 1000pF +-5pct 50 V CER C0G	08055A102JATRA C0805C102J5GAC C2012COG1H102JT	AVX KEMET ELECTRONICS TDK
C101, C102, C103, C30, C31, C36, C37, C55, C56, C77, C78, C79, C99	13	0160-7798	CAP-FXD 0.1uF +-10PCT 50V CER X7R	GRM21BR71H104KA11L VJ0805Y104KXAMT 08055C104KAT_A C0805C104K5RAC C2012X7R1H104K	MURATA MANUFACTURING VISHAY AVX KEMET ELECTRONICS TDK
C105, C106, C107, C108, C109, C32, C343, C344, C345, C346, C347, C352, C353, C354, C357, C358, C359, C360, C38, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C57, C58, C59, C60, C65, C74, C75, C80, C84, C85, C90, C91	50	0160-5944	CAP-FXD 0.047uF +-10pct 50 V CER X7R	08055C473KAT A C0805C473K5RAC C2012X7R1H473K	AVX KEMET ELECTRONICS TDK
C17, C63	2		CAP-FXD 1000pF +-20pct 250 V PPR-MET	PME271Y410MR30	EVOX/RIFA
C20, C320	2		CAP-FXD 2.2UF +-10PCT 100V POLYPH-MET F	SMR22.5225K100D14L6	EVOX/RIFA
C21, C22, C23, C24, C25, C26, C27, C28, C321, C322, C323, C324, C325, C326, C327, C328	16	0160-5961	CAP-FXD 22pF +-5pct 50 V CER C0G	08055A220JAT A C0805C220J5GAC C2012COG1H220J GRM2165C1H220JD01D VJ0805A220JXAMT	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING VISHAY

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
C33	1	0160-5954	CAP-FXD 220pF +-5pct 50 V CER C0G	08055A221JAT A 223858016605 C0805C221J5GAC C2012COG1H221J GRM2165C1H221JA01D	AVX YAGEO KEMET ELECTRONICS TDK MURATA MANUFACTURING
C35	1	0160-7575	CAP-FXD 0.22uF +-10pct 50 V CER X7R	12105C224KAT A C1210C224K5RAC	AVX KEMET ELECTRONICS
C39	1	0160-7940	CAP-FXD 0.027uF +-10pct 50 V CER X7R	08055C273KATA C0805C273K5RAC C2012X7RC273K GRM219R71H273KD01D	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C61, C62	2	0160-5945	CAP-FXD 0.01uF +-10pct 50 V CER X7R	08055C103KAT A 223858016627 C0805C103K5RAC C2012X7R1H103K GRM216R71H103KA01J VJ0805Y103KXAMT	AVX YAGEO KEMET ELECTRONICS TDK MURATA MANUFACTURING VISHAY
C64	1	0160-7866	CAP-FXD 5600pF +-10pct 50 V CER X7R	06035C562KAT C0603C562K5RAC C1608X7R1H562K	AVX KEMET ELECTRONICS TDK
C66, C67, C68, C76, C81	5	0160-6444	CAP-FXD 0.022uF +-10pct 50 V CER X7R	08055C223KAT C0805C223K5RAC C2012X7R1H223K GRM40X7R223K50	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C70	1	0160-5965	CAP-FXD 150pF +-5pct 50 V CER C0G	08055A151JAT A C0805C151J5GAC C2012COG1H151J GRM2165C1H151JA01D	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C71	1	0160-5967	CAP-FXD 100pF +-5pct 50 V CER C0G	08055A101JAT A C0805C101J5GAC C2012COG1H101J GRM2165C1H101JA01D VJ0805A101JXAMT	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING VISHAY
C72, C73	2	0160-7153	CAP-FXD 0.047uF +-10pct 100 V CER X7R	C1210C473K1RAC GRM32MR72A473KA15L	KEMET ELECTRONICS MURATA MANUFACTURING

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
C9	1	_	CAP-FXD 1200pF +-5pct 50 V CER C0G	08055A122JATA	AVX
				C0805C122J5GAC	KEMET ELECTRONICS
				GRM2195C1H122JA01D	MURATA MANUFACTURING
C92, C93, C95, C96	4	0180-3975	CAP-FXD 2.2uF +-20PCT 20V TA	TAJB225M020	AVX
C92, C93, C95, C96	4	0160-3975	CAP-PAD 2.20F +-20PC1 20V 1A	293D225X0020B2E3	VISHAY
				49MC225B020M0AS	VISHAY BC COMPONENTS
				ESVB21D225M	NEC ELECTRONICS
				T491B225M020AS	KEMET ELECTRONICS
C94	1	0180-4577	CAPACITOR-FIXED 10uF +-20PCT 10V TA	TAJB106M010R	AVX
				293D106X0010B2E3	VISHAY
				ESVB21A106M	NEC ELECTRONICS
				T491B106M010AS	KEMET ELECTRONICS
D1	1	1901-1335	DIODE-PWR RECT 400V 1A 50NS	MURS140T3G	ON SEMICONDUCTOR
D17, D18, D19, D2, D21,	20		DIODE-DUAL 200V 200MA T0-236AA	MMBD1503A	FAIRCHILD SEMICONDUCTOR
D22, D23, D24, D25, D26,					
D27, D28, D29, D3, D30, D4,					
D5, D6, D7, D8					
D20	1	1902-1542	DIODE-ZNR 6.2V 5pct TO-236 (SOT-23)	BZX84C6V2	PHILIPS
				BZX84C6V2LT1G	ON SEMICONDUCTOR
				BZX84C6V2	NXP
F1, F2, F3, F301, F302,	16	2110-1138	FUSE-SURFACE MOUNT 15A 65V NTD BI	0451015RL	LITTELFUSE
F303, F304, F305, F306,					
F307, F308, F4, F5, F6, F7,					
F8					
F10, F11, F12, F13, F14,	16	2110-0881	FUSE-SURFACE MOUNT .0625A 125V NTD BI	0459.062	LITTELFUSE
F15, F16, F309, F310, F311,					
F312, F313, F314, F315,					
F316, F9					
J22	1			N2534-6002RB	3M
J23	1		CONN-HDR VERT 3-PIN 2.54MM 1-ROW	68000-103HLF	FCI FRAMATOME BERG
Q11, Q12, Q13, Q14, Q21,	16	1855-1786	TRANSISTOR MOSFET N-CHAN E-MODE TO-2	IRFP140NPBF	INTERNATIONAL RECTIFIER
Q22, Q23, Q24, Q311, Q312,					
Q313, Q314, Q321, Q322,					
Q323, Q324 Q3, Q5, Q6	3	1853-0525	TRANSISTOR PNP SI TO-236AA PD=200MW	MMBT2907	FAIRCHILD SEMICONDUCTOR
(QU, QU, QU	3	1000-0020	TITANOISTON FINE SELO-230AA FD=200IVIV	PMBT2907A	PHILIPS
				MMBT2907ALT1G	ON SEMICONDUCTOR
				PMBT2907A	NXP
				1 120077	
			•	•	-

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
Q4	1	1854-1053	TRANSISTOR NPN SI SOT-23 (TO-236AB)	CMPT2222A MMBT2222A PMBT2222A SST2222A MMBT2222ALT1G PMBT2222A	CENTRAL SEMICONDUCTOR FAIRCHILD SEMICONDUCTOR PHILIPS ROHM ON SEMICONDUCTOR NXP
R1, R161	2	0699-3070	RESISTOR 26.1K +-1pct .1W TKF TC=0+-100	CRCW080526K1FKE_ RK73H2AT_2612F MCR10F2612 232273462613 MC08052612-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R10, R11, R12, R13, R14, R15, R16, R17, R310, R311, R312, R313, R314, R315, R316, R317	16	0699-3828	RES-FXD 21.5 OHM +-1PCT 0.1W TC 0+-100	CRCW080521R5FKE_ RK73H2AT21R5F MCR10F21R5 232273462159L MC080521R5-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R100, R101, R102, R107, R108, R109, R110, R111, R112, R113, R115, R257, R268, R407, R408, R409, R410, R411, R412, R413, R415	21	0699-3051	RESISTOR 10K +-1pct .1W TKF TC 0+-100	232273461003L CRCW080510K0FKE_ RK73H2AT_1002F MC08051002-FTW MCR10F1002	YAGEO VISHAY KOA RCD COMPONENTS ROHM
R103, R114, R156, R159, R195, R196, R197, R199, R238, R239, R240, R241, R242, R243, R245, R246, R247, R255, R290	19	0699-1503	RESISTOR 0 CWM	CRCW12060000ZSE_ RK73Z2BT MCR18J000 232271191005	VISHAY KOA ROHM YAGEO
R104, R105, R248, R270, R34, R97	6	0699-2986	RESISTOR 21.5K +-1pct .1W TKF TC=0+-100	CRCW080521K5FKE_ RK73H2AT_2152F MCR10F2152 232273462153 CR21-2152-FF MC08052152-FT	VISHAY KOA ROHM YAGEO ASJ RCD COMPONENTS

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R106, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R406, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85	32	0699-2487	RESISTOR 90K +-0.1pct .125W TF TC=0+-25	RN732BT_9002B25 BLU-1206 90K .1% 25PPM MCA1206-25 0, 1% P5 90K MCA1206-25 0, 1% P5 90K PCF-W1206LF-03-9002-B	KOA RCD COMPONENTS VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R116, R117, R118, R119, R120, R121, R122, R128, R261, R267, R269, R416, R417, R418, R419, R420, R421, R422, R428	19	0699-3053	RESISTOR 100K +-1pct .1W TKF TC=0+-100	CRCW0805100KFKE_ RK73H2AT_1003F MCR10F1003 232273461004 MC08051003-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R123, R215	2	0699-3817	RESISTOR 12.7K +-1pct .1W TKF TC=0+-100	CRCW080512K7FKE_ RK73H2AT_1272F MCR10F1272 232273461273	VISHAY KOA ROHM YAGEO
R124, R191, R192	3	0699-2485	RESISTOR 60K +-0.1pct .125W TF TC=0+-25	RN732BT_6002B25 BLU-1206 60K .1% 25PPM MCA1206-25 0, 1% P5 60K MCA1206-25 0, 1% P5 60K PCF-W1206LF-03-6002-B	KOA RCD COMPONENTS VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R125, R33	2	0699-3032	RESISTOR 511 +-1pct .1W TKF TC=0+-100	CRCW0805511RFKE_ RK73H2AT_5110F MCR10F5110 232273465111 MC08055110-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R126, R127, R216, R217	4	0699-3473	RESISTOR 20K +-1pct .1W TKF TC=0+-100	CRCW080520K0FKE_ RK73H2AT_2002F MCR10F2002	VISHAY KOA ROHM
R129, R130, R131, R132, R133, R135, R136, R140, R429, R430, R431, R432, R433, R435, R436, R440	16	0699-2491	RESISTOR 20K +-0.1pct .125W TF TC=0+-25	RN732BT_2002B25 BLU-1206 20K .1% 25PPM MCA1206-25 0, 1% P5 20K MCA1206-25 0, 1% P5 20K PCF-W1206LF-03-2002-B	KOA RCD COMPONENTS VISHAY BC COMPONENTS VISHAY TT ELECTRONICS

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R134, R137, R138, R139, R193, R194, R218, R219, R229, R230	10		RESISTOR 10K +-0.1pct .125W TF TC=0+-25	RN732BT_1002B25 BLU-1206 10K .1% 25PPM MCA1206-25 0, 1% P5 10K MCA1206-25 0, 1% P5 10K PCF-W1206LF-03-1002-B	KOA RCD COMPONENTS VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R162, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R462	32	0699-3131	RESISTOR 3.32K +-0.1pct .125W TF TC=0+-25	RN732BT_3321B25 BLU-1206 3K32 .1% 25PPM PTN1206E3321BB PCF-W1206LF-03-3321-B	KOA RCD COMPONENTS VISHAY TT ELECTRONICS
R157, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R198, R256, R28, R36, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R498, R98	37	0699-2490	RESISTOR 1K +-0.1pct .125W TF TC=0+-25	RN732BT_1001B25 BLU-1206 1K .1% 25PPM MCA1206-25 0, 1% P5 1K MCA1206-25 0, 1% P5 1K PCF-W1206LF-03-1001-B	KOA RCD COMPONENTS VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R158, R182, R86, R87, R88	5	0699-3045	RESISTOR 5.11K +-1pct .1W TKF TC=0+-100	CRCW08055K11FKE_ RK73H2AT_5111F MCR10F5111 232273465112 MC08055111-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R160, R252, R253, R254	4	0699-1466	RESISTOR 10M +-10pct .125W TKF TC=0+-200	CRCW1206106KJNE_ RK73B2BT_106J MCR18K106 232271161106	VISHAY KOA ROHM YAGEO
R178, R92	2	0699-3049	RESISTOR 8.25K +-1pct .1W TKF TC=0+-100	CRCW08058K25FKE_ RK73H2AT_8251F MCR10F8251 232273478252 MC08058251-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R18, R344, R47	3	0699-2990	RESISTOR 42.2K +-1pct .1W TKF TC=0+-100	CRCW080542K2FKE_ 2322734_4223 RK73H2AT_4222F MCR10F4222 MC08054222-FT	VISHAY YAGEO KOA ROHM RCD COMPONENTS
R180	1	0699-3713	RESISTOR 36.5K +-1pct .1W TKF TC=0+-100	RK73H2AT_3652F MCR10F3652 MC08053652-FT	KOA ROHM RCD COMPONENTS
R181, R202, R206, R226, R227, R349, R350, R54	8	0699-3073	RESISTOR 51.1K +-1pct .1W TKF TC=0+-100	CRCW080551K1FKE_ RK73H2AT_5112F MCR10F5112 232273465113 MC08055112-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R183, R184, R185, R186, R187, R188, R189, R190	8	0699-3840	RES-FXD 19.6 OHM +-1PCT 0.1W TC 0+-100	RK73H2AT19R6F 232273461969 MCR10F19R6 CRCW080519R6FKE_ MC080519R6-FT	KOA YAGEO ROHM VISHAY RCD COMPONENTS
R19	1	0699-3862	RESISTOR 200K +-1PCT .1W TKF TC=0+-100	CRCW0805200KFKE_ RK73H2AT_2003F MCR10F2003 232273462004 MC08052003-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R2, R3, R302, R303, R304, R305, R306, R307, R308, R309, R4, R5, R6, R7, R8, R9	16	0699-3067	RESISTOR 14.7K +-1pct .1W TKF TC=0+-100	CRCW080514K7FKE_ RK73H2AT_1472F MCR10F1472 232273461473 MC08051472-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R20, R22	2	0699-2998	RESISTOR 162K +-1pct .1W TKF TC=0+-100	CRCW0805162KFKE_ RK73H2AT_1623F MCR10F1623 232273461624	VISHAY KOA ROHM YAGEO
R201, R95	2	0699-5258	RESISTOR 60.4K +-1pct .1W TKF TC=0+-100	ERJ6ENF6042	MATSUSHITA
R203, R347, R348, R45	4	0699-5773	RESISTOR 47.5K +-1pct .1W TC=0+-100	CRCW080547K5FKE_ MCR10F4752	VISHAY ROHM

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R205, R264, R272, R273, R42	5	0699-3034	RESISTOR 1K +-1pct .1W TKF TC 0+-100	CRCW08051K00FKE_ RK73H2AT_1001F 232273461002L MCR10F1001 MC08051001-FT	VISHAY KOA YAGEO ROHM RCD COMPONENTS
R207, R291	2	0699-4270	RESISTOR 274 +-1pct .1W TKF TC=0+-100	CRCW0805274RFKE_ RK73H2AT_2740F MCR10F2740 232273462741 MC08052740-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R208, R259	2	0699-3040	RESISTOR 3.16K +-1pct .1W TKF TC=0+-100	CRCW08053K16FKE_ RK73H2AT_3161F MCR10F3161 232273463162 MC08053161-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R209, R89	2	0699-3047	RESISTOR 6.81K +-1PCT .1W TKF TC=0+-100	CRCW08056K81FKE_ RK73H2AT_6811F MCR10F6811 232273466812 MC08056811-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R21, R223, R224, R225	4	0699-3012	RESISTOR 750K +-1pct .1W TKF TC=0+-100	CRCW0805750KFKE_ RK73H2AT_7503F MCR10F7503 232273467504 MC08057503-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R210	1	0699-4414	RES-FXD 14.3K +-1PCT 0.125W TC 0+-100 201	MCR10F1432 ERJ6ENF1432 RK73H2AT1432F	ROHM MATSUSHITA KOA
R211	1	0699-3059	RESISTOR 162 +-1pct .1W TKF TC=0+-100	CRCW0805162RFKE_ RK73H2AT_1620F 232273461621L MCR10F1620 MC08051620-FT	VISHAY KOA YAGEO ROHM RCD COMPONENTS

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R212	1	0699-2981	RESISTOR 1.78K +-1pct .1W TKF TC=0+-100	CRCW08051K78FKE_ RK73H2AT_1781F MCR10F1781 232273461782 MC08051781-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R214	1	0699-2988	RESISTOR 31.6K +-1pct .1W TKF TC=0+-100	CRCW080531K6FKE_ RK73H2AT_3162F MCR10F3162 232273463163 MC08053162-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R221, R222	2	0699-3044	RESISTOR 4.64K +-1pct .1W TKF TC=0+-100	CRCW08054K64FKE_ RK73H2AT_4641F 232273464642L MCR10F4641 MC08054641-FT	VISHAY KOA YAGEO ROHM RCD COMPONENTS
R228	1	0699-2974	RESISTOR 348 +-1pct .1W TKF TC=0+-100	CRCW0805348RFKE_ RK73H2AT_3480F MCR10F3480 232273463481	VISHAY KOA ROHM YAGEO
R23, R25, R260	3	0699-2999	RESISTOR 178K +-1pct .1W TKF TC=0+-100	CRCW0805178KFKE_ RK73H2AT_1783F MCR10F1783 232273461784 MC08051783-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R231	1	0699-3046	RESISTOR 6.19K +-1pct .1W TKF TC=0+-100	CRCW08056K19FKE_ RK73H2AT_6191F MCR10F6191 2322734X6192 MC08056191-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R232, R91	2	0699-3052	RESISTOR 12.1K +-1pct .1W TKF TC=0+-100	CRCW080512K1FKE_ CR21-1212-FL RK73H2AT_1212F MCR10F1212 232273461213 MC08051212-FT	VISHAY ASJ KOA ROHM YAGEO RCD COMPONENTS

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R233, R234, R235, R244	4	0699-3074	RESISTOR 61.9K +-1pct .1W TKF TC=0+-100	CRCW080561K9FKE_ RK73H2AT_6192F MCR10F6192 232273466193	VISHAY KOA ROHM YAGEO
R24, R30, R35	3	0699-3033	RESISTOR 750 +-1pct .1W TKF TC=0+-100	CRCW0805750RFKE_ RK73H2AT_7500F MCR10F7500 23227346A7501 MC08057500-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R26	1	0699-2984	RESISTOR 13.3K +-1pct .1W TKF TC=0+-100	CRCW080513K3FKE_ RK73H2AT_1332F MCR10F1332 232273461333 MC08051332-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R262	1	0699-3039	RESISTOR 2.61K +-1pct .1W TKF TC=0+-100	CRCW08052K61FKE_ RK73H2AT_2611F MCR10F2611 232273462612 MC08052611-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R263	1	0699-2992	RESISTOR 75K +-1pct .1W TKF TC=0+-100	CRCW080575K0FKE_ RK73H2AT_7502F MCR10F7502 232273467503 MC08057502-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R27	1	0699-3068	RESISTOR 16.2K +-1pct .1W TKF TC=0+-100	CRCW080516K2FKE_ RK73H2AT_1622F MCR10F1622 232273461623 MC08051622-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R271, R345, R346, R46	4	0699-2965	RESISTOR 46.4K +-1pct .1W TKF TC=0+-100	CRCW080546K4FKE_ RK73H2AT_4642F MCR10F4642 232273474643 MC08054642-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R274	1		RESISTOR 10 +-1pct .1W TKF TC=0+-100	CRCW080510R0FKE_	VISHAY
	'	0033-3030	The state of the	RK73H2AT_10R0F	KOA
				MCR10F10R0	ROHM
				MC080510R0-FT	RCD COMPONENTS
				Meddestarkarr	TOD COMIT CIVETUTE
R275, R276, R277, R278,	8	0699-3843	RESISTOR 34.8 +-1pct .1W TKF TC=0+-100	RK73H2AT_34R8F	KOA
R279, R280, R281, R282				232273463489L	YAGEO
				MCR10F34R8	ROHM
				CRW080534R8F	VISHAY
				MC080534R8-FT	RCD COMPONENTS
R283, R38, R39	3	0699-3037	RESISTOR 2.15K +-1pct .1W TKF TC=0+-100	CRCW08052K15FKE_	VISHAY
11200, 1100, 1100		0000 0001	The state of the	RK73H2AT_2151F	KOA
				MCR10F2151	ROHM
				232273462152	YAGEO
				MC08052151-FT	RCD COMPONENTS
				WC08032131-F1	RCD COMPONENTS
R29	1	0699-3718	RESISTOR 4.32K +-1PCT .1W TKF TC=0+-100	RK73H2AT_4321F	KOA
				MCR10F4321	ROHM
R31, R351, R44, R48, R49,	7	0699-2991	RES-FXD 56.2K +-1PCT 0.1W TC 0+-100 0805	CRCW080556K2FKE_	VISHAY
R50, R51				RK73H2AT_5622F	KOA
·				MCR10 F5622	ROHM
				232273465623	YAGEO
				MC08055622-FT	RCD COMPONENTS
R32, R37	2	0699-2993	RESISTOR 82.5K +-1pct .1W TKF TC=0+-100	CRCW080582K5FKE	VISHAY
132, 137	_	0099-2993		RK73H2AT_8252F	KOA
				MCR10 F8252	ROHM
				232273468253	YAGEO
				MC08058252-FT	RCD COMPONENTS
R352, R353, R355, R356,	16	0699-3077	RESISTOR 1M +-1pct .1W TKF TC=0+-100	CRCW08051M00FKE_	VISHAY
R358, R359, R360, R361,			·	RK73H2AT_1004F	KOA
R52, R53, R55, R56, R58,				MCR10 F1004	ROHM
R59, R60, R61				232273471005	YAGEO
				MC08051004-FT	RCD COMPONENTS
R40	1	0699-2847	RESISTOR 2K +-0.1pct .125W TF TC=0+-25	RN732BT_2001B25	KOA
11.40	'	0033-2047		BLU-1206 2K .1% 25PPM	RCD COMPONENTS
				TNPW12062001BT-9	VISHAY
				PCF-W1206LF-03-2001-B	TT ELECTRONICS

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
R41	1	0699-3050	RESISTOR 9.09K +-1pct .1W TKF TC=0+-100	CRCW08059K09FKE_ RK73H2AT_9091F MCR10F9091 232273469092 MC08059091-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
R43,R179	2	0699-3066	RESISTOR 11K +-1pct .1W TKF TC=0+-100	CRCW080511K0FKE_ RK73H2AT_1102F 232273461103L MCR10F1102 MC08051102-FT	VISHAY KOA YAGEO ROHM RCD COMPONENTS
R57, R99	2	0699-3531	RESISTOR 2K +-1pct .1W TKF TC=0+-100	CRCW08052K00FKE_ CR21-2001-FL RK73H2AT_2001F MCR10F2001 232273462002 MC08052001-FT	VISHAY ASJ KOA ROHM YAGEO RCD COMPONENTS
R62	1	0699-2837	RESISTOR 30K +-0.1pct .125W TF TC=0+-25	RN732BT_3002B25 BLU-1206 30K .1% 25PPM MCA1206-25 0, 1% P5 30K PTN1206E3002BB PCF-W1206LF-03-3002-B	KOA RCD COMPONENTS VISHAY BC COMPONENTS VISHAY TT ELECTRONICS
R63, R64, R67, R68, R69, R70, R369, R370	8	0811-6571	SHUNT-2 TERMINAL	FA2743	RCD COMPONENTS
R65, R66, R363, R364, R365, R366, R367, R368	8	5182-9172	RESISTOR-SHUNT		
R90	1	0699-3524	RESISTOR 18.7K +-1pct .1W TKF TC=0+-100	RK73H2AT_1872F MCR10F1872	KOA ROHM
R93, R94, R393, R394, R395	5	0699-6751	RESISTOR 5 OHM +-5pct 5W MO TC=0+-100	RSF3B 5R00-J	RCD COMPONENTS
R96	1	0699-2979	RESISTOR 1.21K +-1pct .1W TKF TC=0+-100	CRCW08051K21FKE_ RK73H2AT_1211F MCR10F1211 232273461212 MC08051211-FT	VISHAY KOA ROHM YAGEO RCD COMPONENTS
RT1	1	0837-0397	THERMISTOR CYL CHIP 10K-OHM	135-103LFW-J01	HONEYWELL
S1	1	3101-2894	SWITCH-PB DPDTALTNG .01A 100 VAC	F2UEE AU	ITT INDUSTRIES

Reference Designator	QTY	Agilent P/N	Description	MPN	Manufacturer
U1, U21, U3, U304, U305, U306, U307, U4, U5, U6, U7	11	1826-1912	IC OP AMP H-SLEW-RATE DUAL 8 PIN	MC34072DR2G	ON SEMICONDUCTOR
U10, U11, U2, U23, U25, U9	6	1826-1925	IC OP AMP LOW-NOISE SINGLE 8 PIN	OPA27GU/E4 OP27GSZ	TEXAS INSTRUMENTS ANALOG DEVICES
U12, U13, U14, U15, U16, U17, U18, U22, U312, U313, U314, U315, U316, U317, U318, U322	16	1826-8691	IC OP AMP HIGH-CUR DUAL 8 PIN PLSTC-SOIO	AD8551ARZ	ANALOG DEVICES
U19	1	1826-1775	IC COMPARATOR LP QUAD 14 PIN PLSTC-SOI	LM339AD	TEXAS INSTRUMENTS
U20, U26, U27	3	1826-1813	IC OP AMP GP DUAL 8-SOIC	LM358D LM358MNOPB	TEXAS INSTRUMENTS NATIONAL SEMICONDUCTOR
U24	1	1826-2959	IC MULTIPLIER 4-QUAD SINGLE 8 PIN	AD633JRZ	ANALOG DEVICES
U8	1	1826-2149	ANALOG SWITCH 4 SPST 16 -P-SOIC	DG444DY-E3	VISHAY
VR1	1	1901-1284	DIODE-V-SUPPR 75V	5KP75A	VISHAY

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